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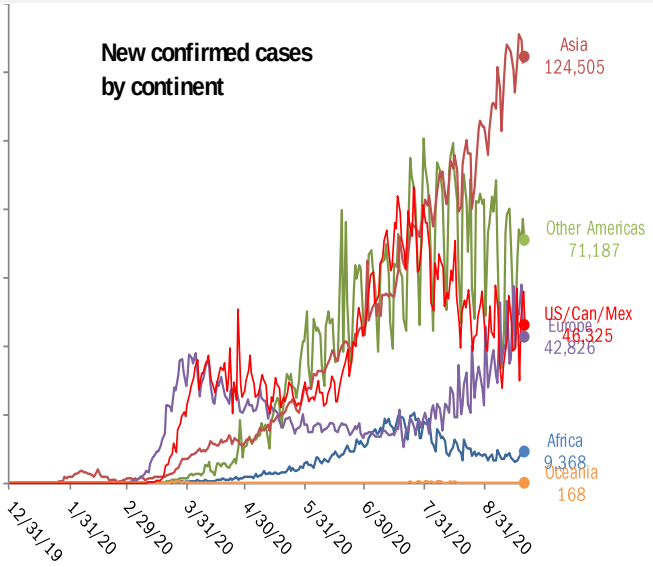
# Data Insights: Covid-2019 Monitor

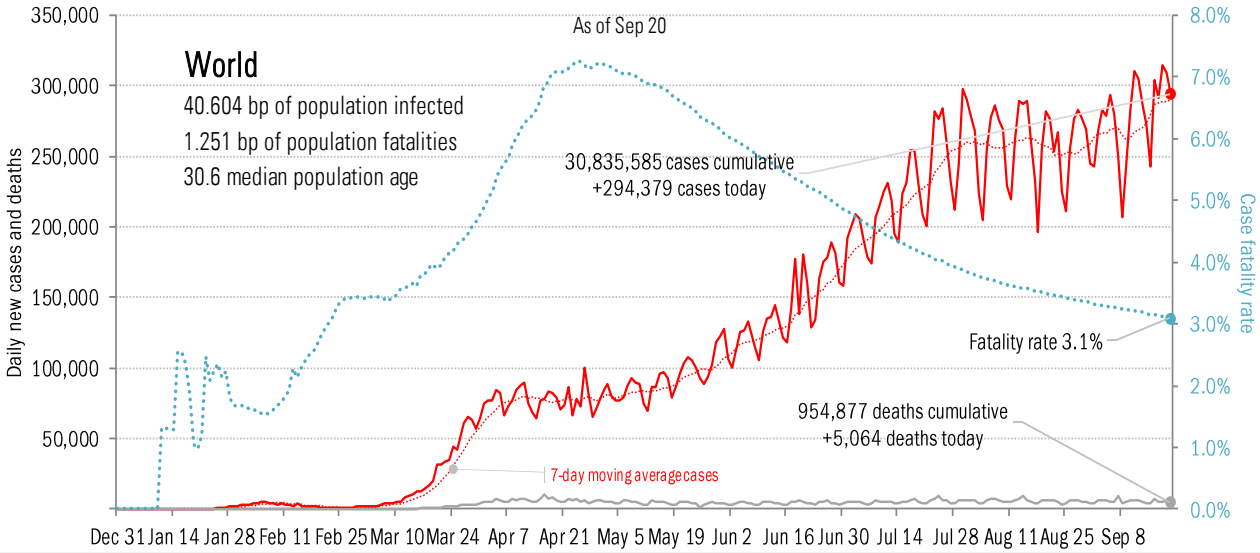
Sunday, September 20, 2020

## The global scorecard

**The worst ten countries**

| New cases | | New Deaths | |
|---|---|---|---|
| India | +92,605 | India | +1,133 |
| US | +40,295 | Brazil | +739 |
| Brazil | +33,057 | US | +669 |
| France | +13,498 | Mexico | +455 |
| Argentina | +11,945 | Argentina | +214 |
| Colombia | +7,927 | Colombia | +189 |
| Peru | +6,453 | Iran | +166 |
| Russia | +6,065 | Russia | +144 |
| Mexico | +5,167 | Indonesia | +112 |
| Israel | +4,531 | Philippines | +100 |
| | +221,543 | | +3,921 |
| World | +294,379 | World | +5,064 |
| Top ten | 75% | Top ten | 77% |




Source: ECDC, TrendMacro calculations

**For more information contact us:**
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# The US scorecard

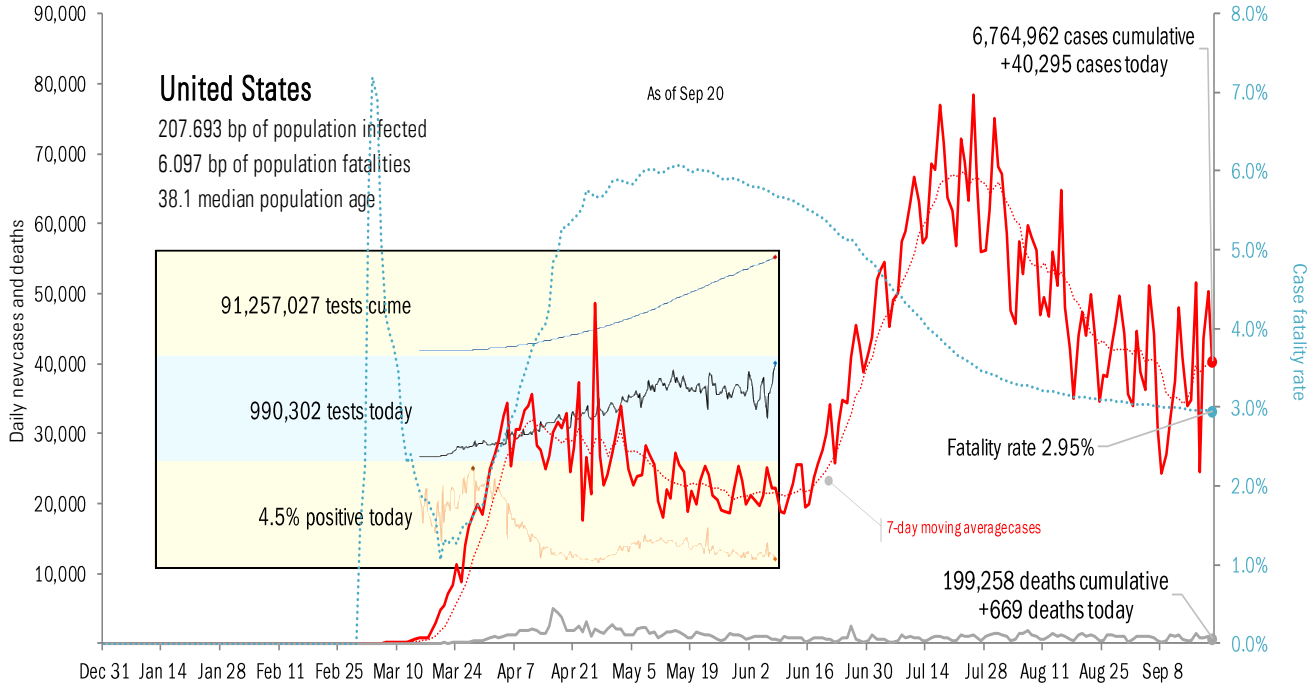
National and state-by-state data do not line up because of different sources

**The ten worst US states**

| New cases | | New Deaths | | New in hospital | | Cume cases | | Cume deaths | | Cume in hospital | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CA | +4,304 | TX | +135 | FL | +143 | CA | 774,135 | NY | 25,425 | NY | 89,995 |
| TX | +3,827 | CA | +100 | GA | +135 | TX | 686,068 | NJ | 16,064 | FL | 42,858 |
| FL | +3,573 | FL | +63 | OK | +88 | FL | 681,233 | CA | 14,912 | GA | 27,338 |
| IL | +2,529 | GA | +62 | VA | +71 | NY | 449,038 | TX | 14,848 | NJ | 23,120 |
| WI | +2,403 | VA | +41 | AR | +67 | GA | 305,021 | FL | 13,450 | AZ | 21,882 |
| GA | +2,284 | MS | +29 | OH | +63 | IL | 275,054 | MA | 9,295 | VA | 17,808 |
| MO | +1,387 | NC | +28 | IN | +56 | AZ | 213,551 | IL | 8,672 | AL | 16,227 |
| PR | +1,309 | MA | +26 | TN | +53 | NJ | 199,309 | PA | 7,956 | MD | 15,119 |
| AL | +1,301 | IL | +25 | WI | +50 | NC | 192,248 | MI | 6,969 | OH | 14,750 |
| OK | +1,237 | PA | +22 | MD | +49 | TN | 181,439 | GA | 6,599 | MA | 12,537 |
| | +24,154 | | +531 | | +775 | | 3,957,096 | | 124,190 | | 281,634 |
| All states | +44,283 | All states | +737 | All states | +1,091 | All states | 6,733,110 | All states | 191,303 | All states | 394,687 |
| Top ten | 55% | Top ten | 72% | Top ten | 71% | Top ten | 59% | Top ten | 65% | Top ten | 71% |

**Five most improved US states**

| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most recoveries | |
|---|---|---|---|---|---|---|---|
| KS | -1,415 | FL | -77 | AL | -148 | TX | +4,860 |
| TN | -1,415 | LA | -29 | KS | -55 | MI | +4,703 |
| LA | -979 | AZ | -26 | FL | -47 | AR | +1,858 |
| AR | -871 | OH | -24 | TN | -31 | TN | +1,801 |
| AZ | -673 | AL | -18 | AZ | -27 | WI | +1,448 |




Source: States and test data Covid Tracking Project, US data ECDC, TrendMacro calculations

## Recommended reading

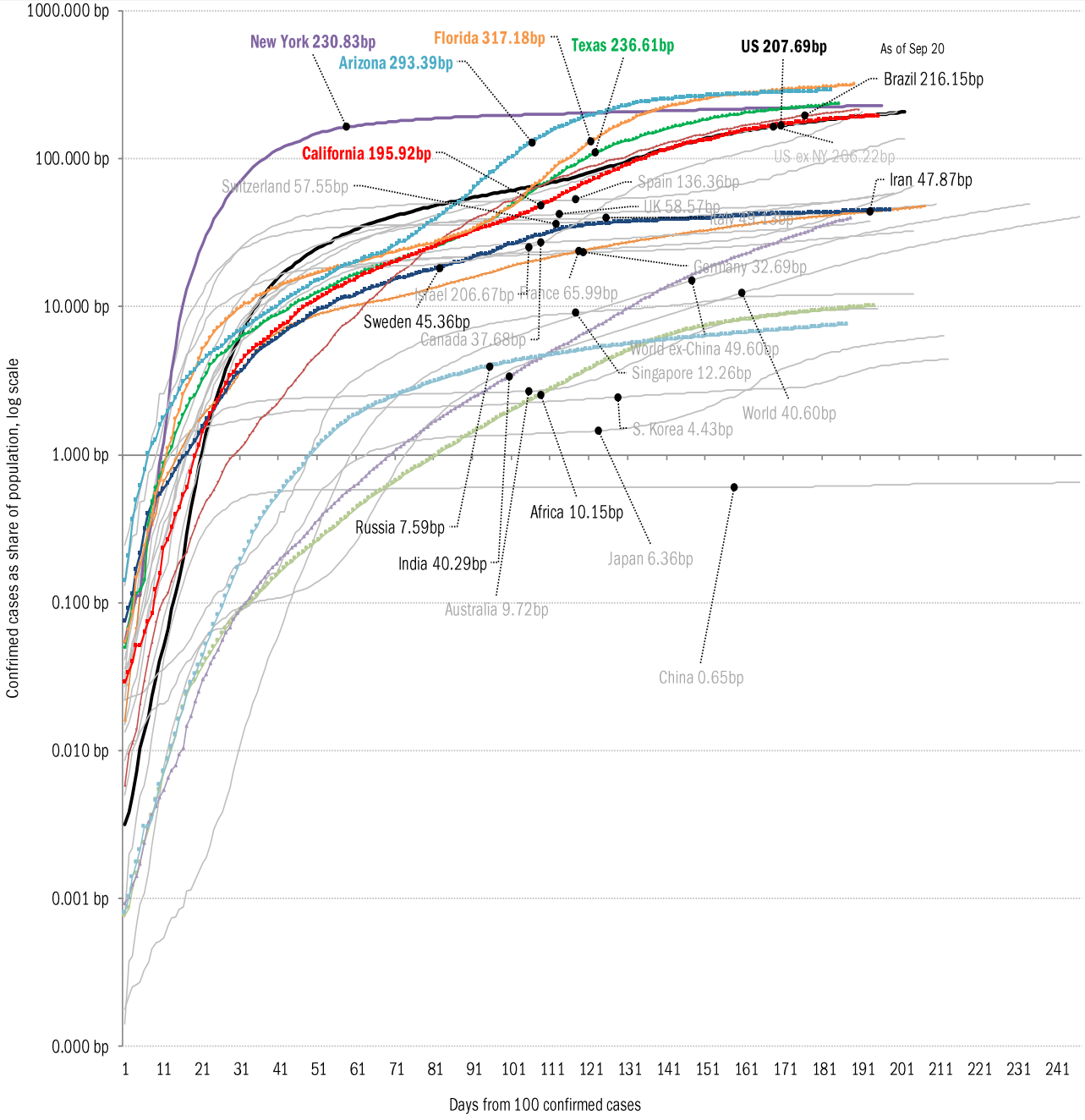
[Covid-19: Do many people have pre-existing immunity?]
Peter Doshi
*BMJ*
September 18, 2020

## Meme of day

Source: Our beloved clients, and Power Line blog "The Week in Pictures"

## The coronavirus case accelerometer… tracking the world's infection curves

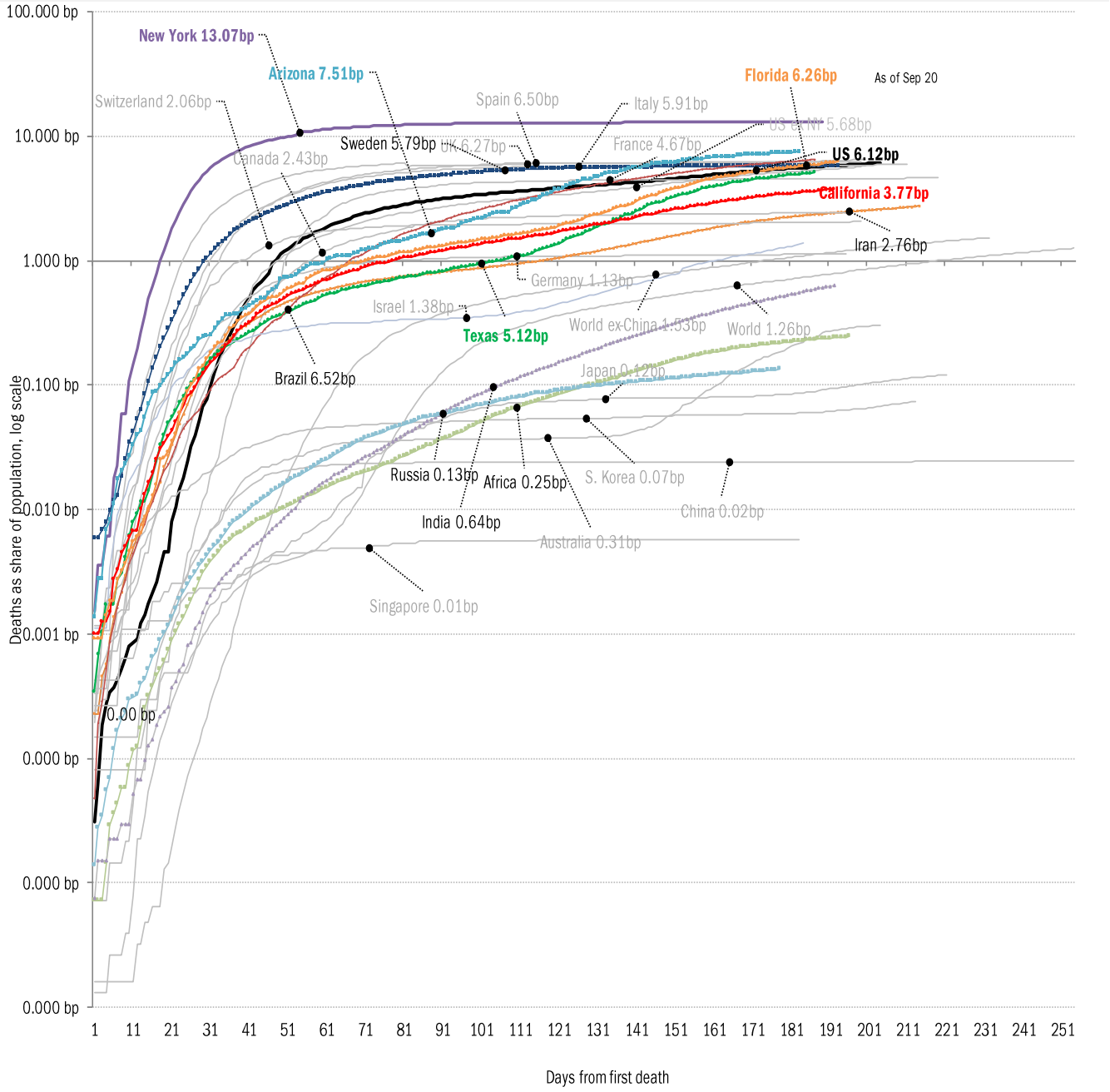
*Share of infected population from first day with 100 confirmed cases, log scale*




Source: ECDC, TrendMacro calculations

## The coronavirus mortality accelerometer … tracking the world's fatality curves

*Share of deceased population from day of first fatality*

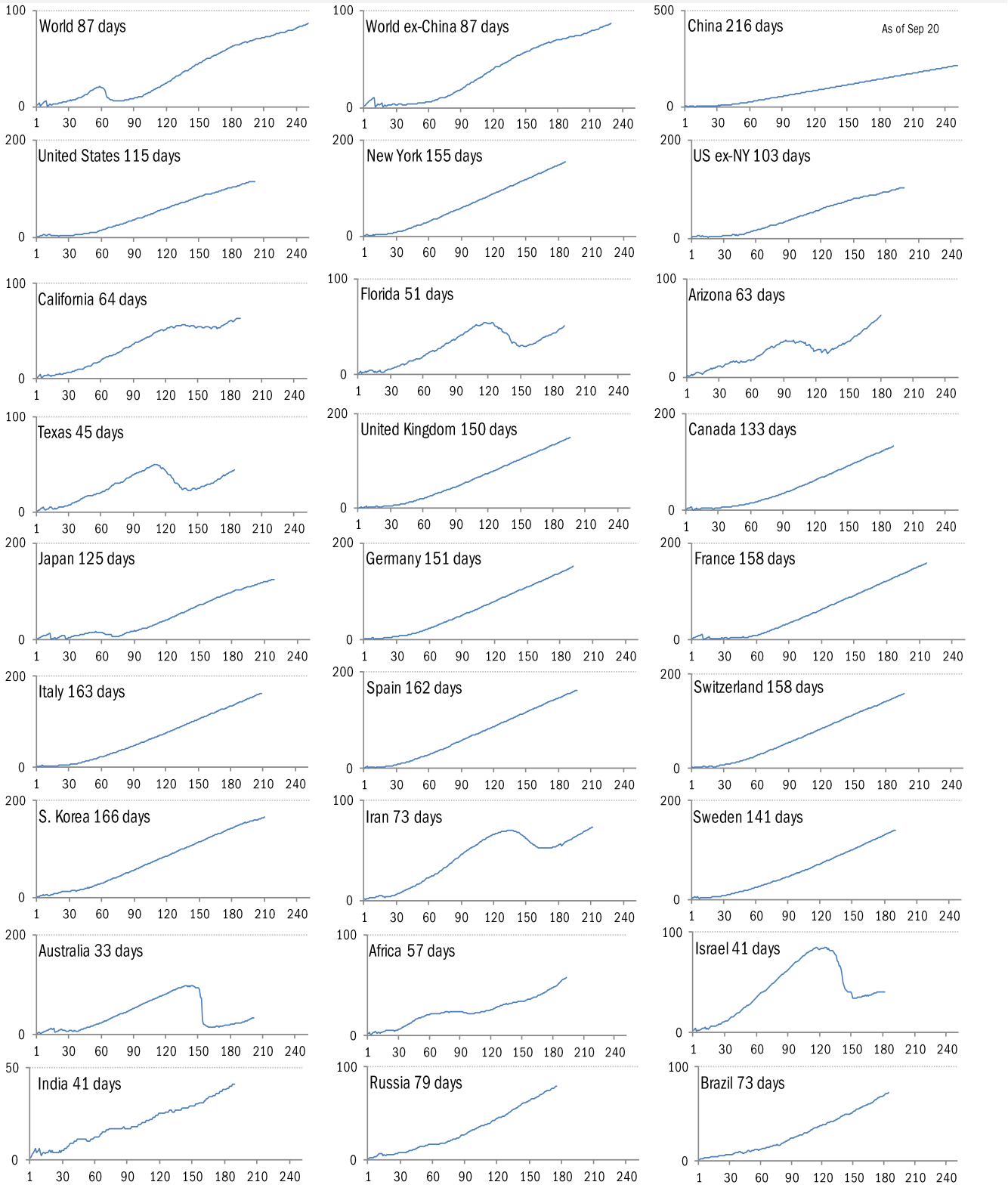



Source: ECDC, TrendMacro calculations

# Our most reliable evidence of slowing exponential growth of Covid-2019

*Vertical: days to double deaths  Horizontal: days from first death*

Flat indicates exponential spread  Declining indicates supra-exponential spread  Rising indicates sub-exponential spread

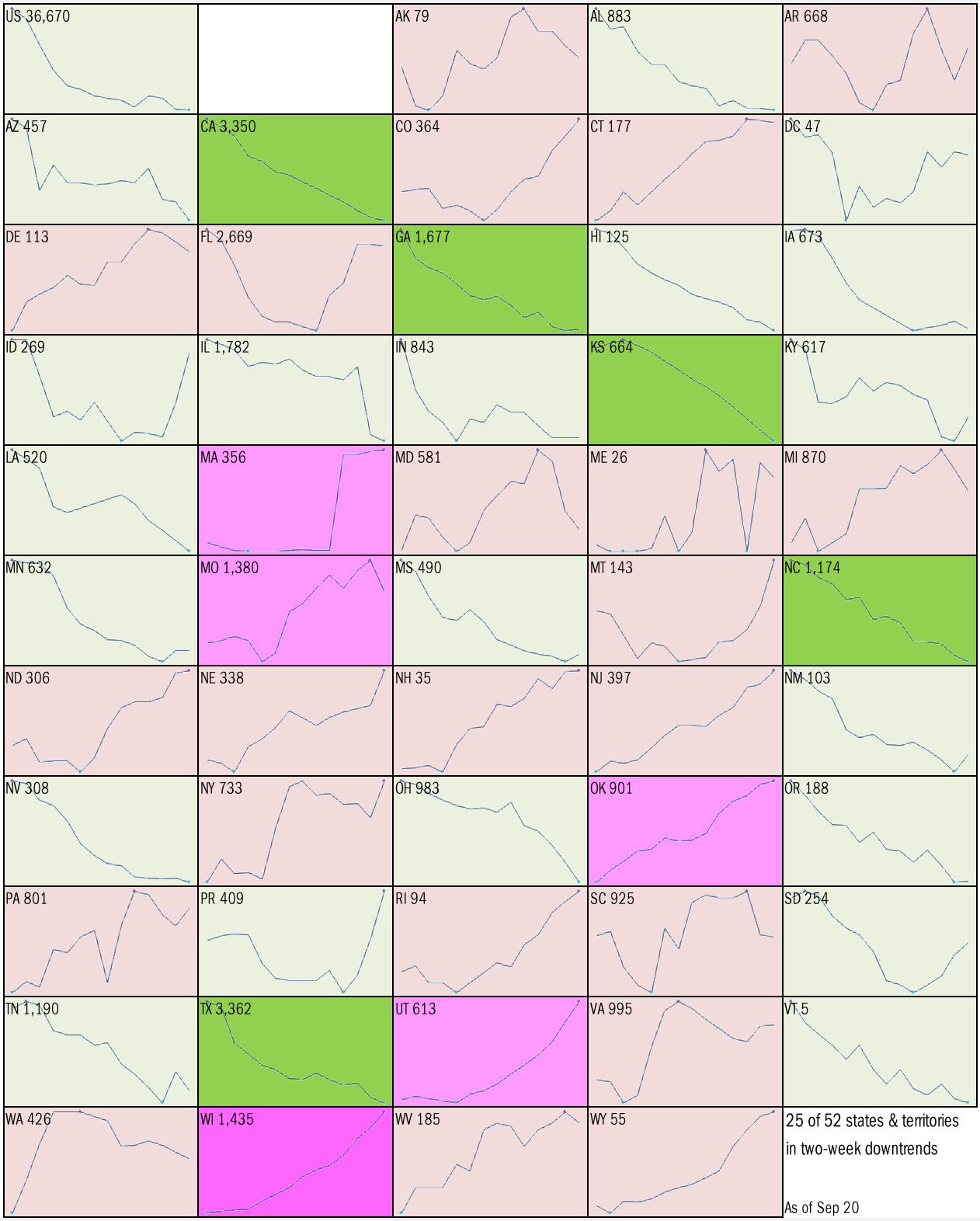



Source: ECDC, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward trajectory" in new cases

*14-day moving average, last 14 days  Most recent value displayed* • High • Low

Downward trajectory  Five best  Upward trajectory  Five worst




Source: Covid Tracking Project, TrendMacro calculations

## Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

*14-day moving average, last 14 days* *Most recent value displayed* • High • Low

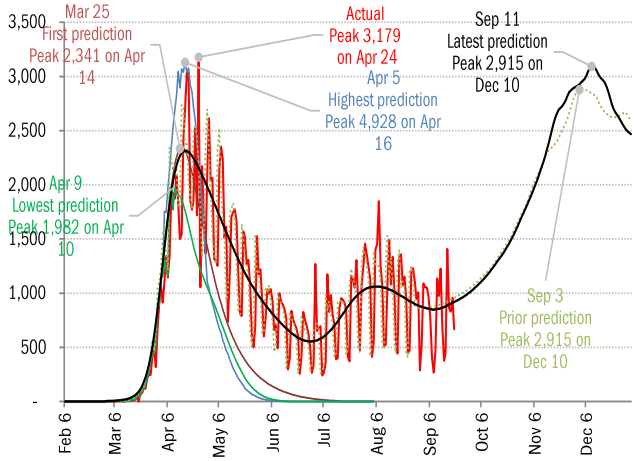
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

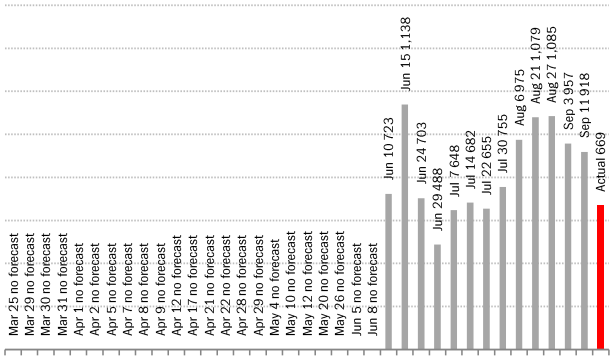
# Reality-checking the models: actuals versus IHME predictions

**New daily fatalities** As of Sep 20

Actual versus first, highest, lowest and latest model mean predictions

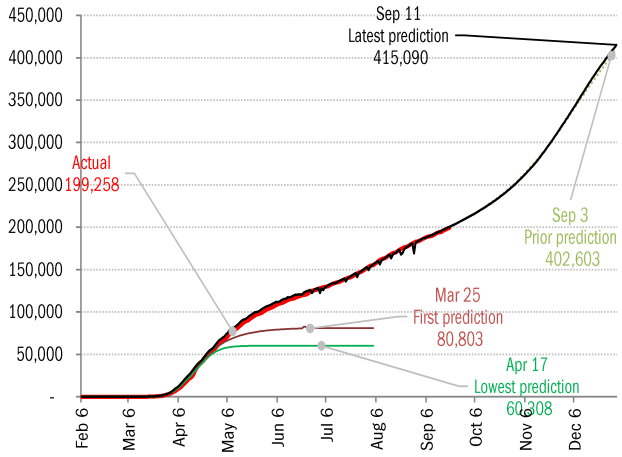



For this day, versus all model mean predictions

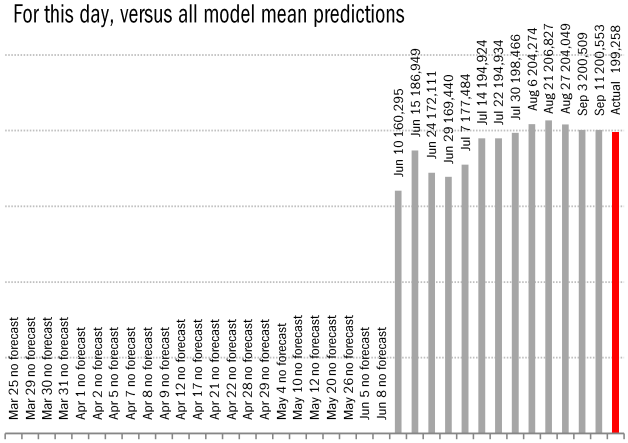



**Cumulative fatalities**

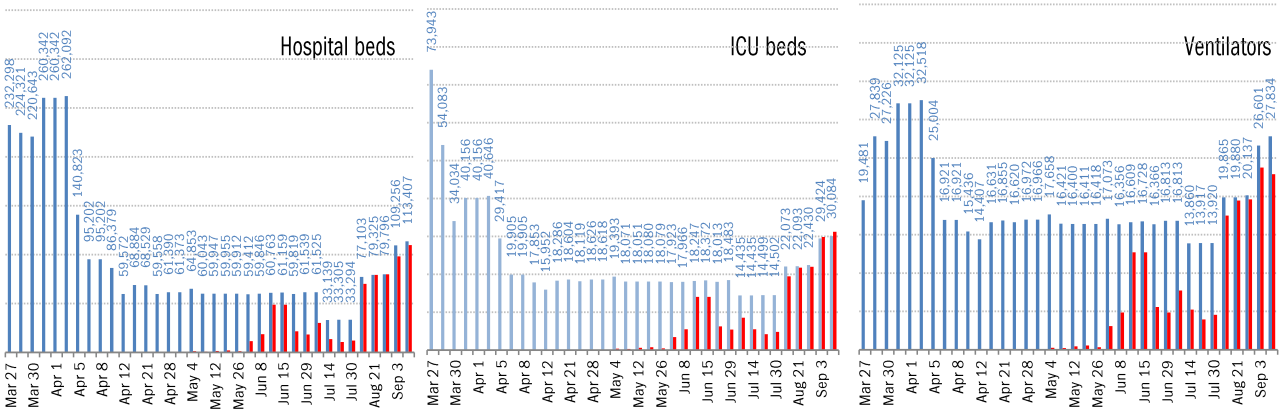
Actual versus first, highest, lowest and latest model mean predictions




For this day, versus all model mean predictions

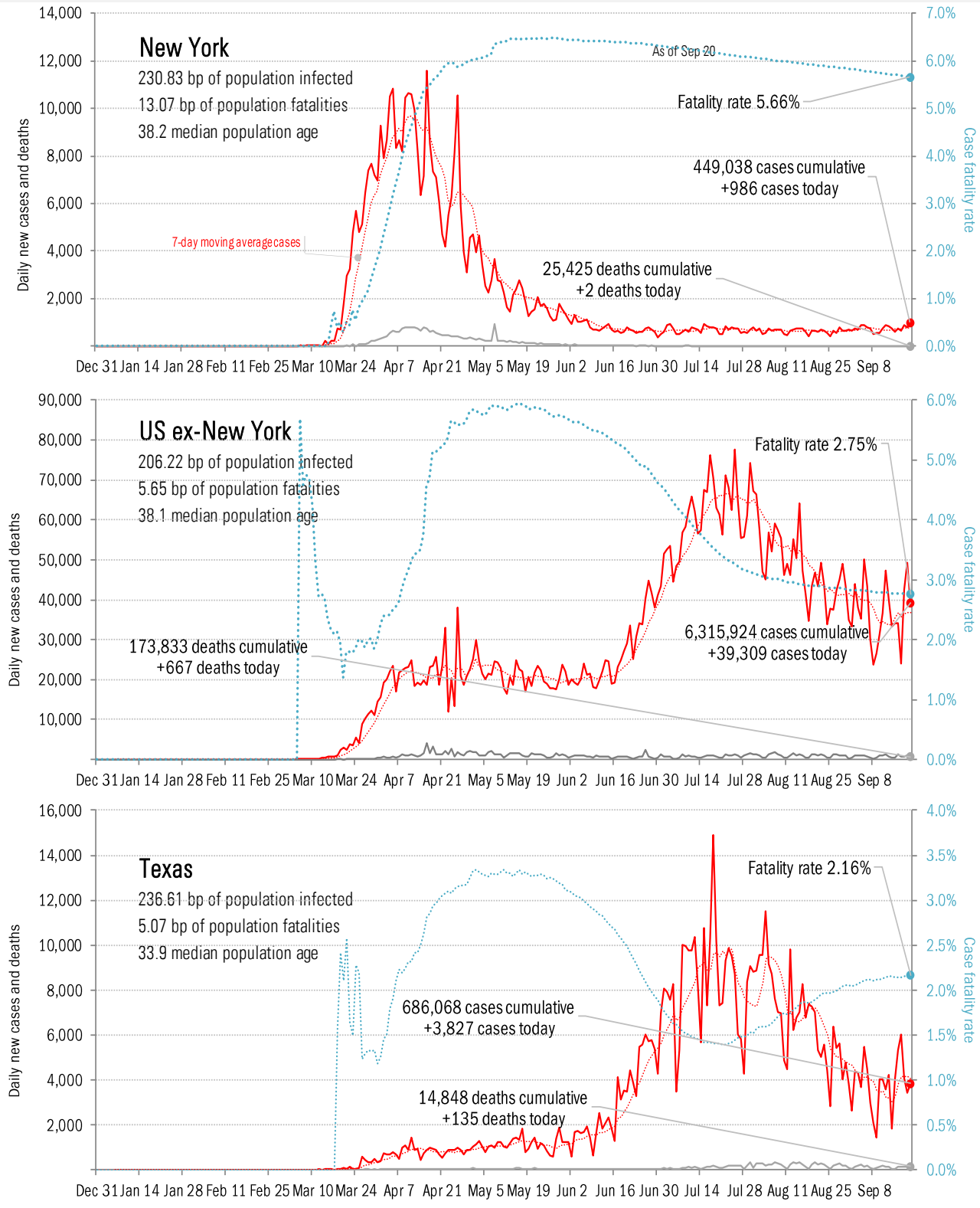



**Healthcare system stress, peak and ultimate estimated at each model revision**



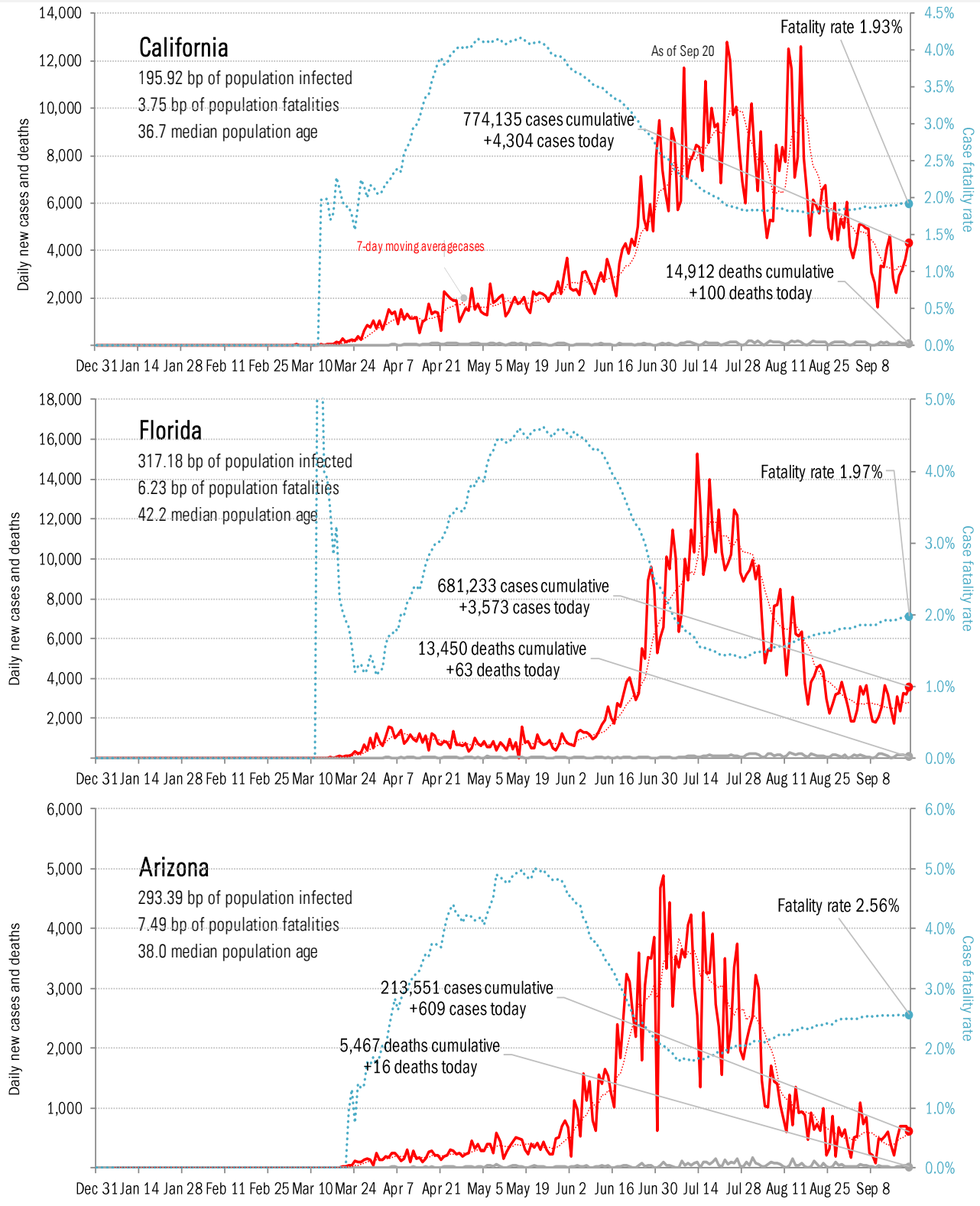

Source: ECDC, IHME, TrendMacro calculations

## From Ground Zero to the Rio Grande



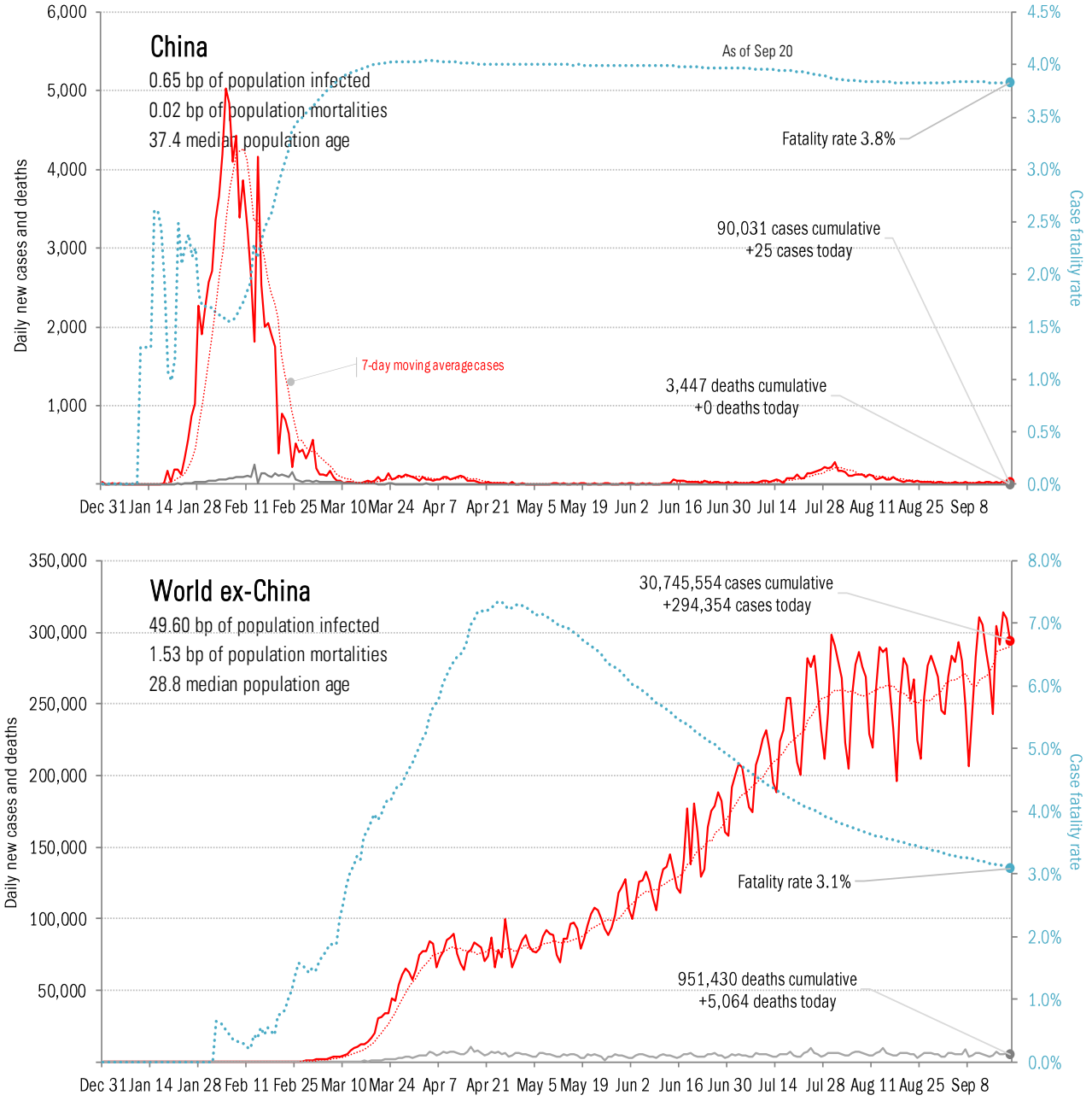

Source: ECDC, TrendMacro calculations

## The sun-belt hot-spot states (other than Texas)



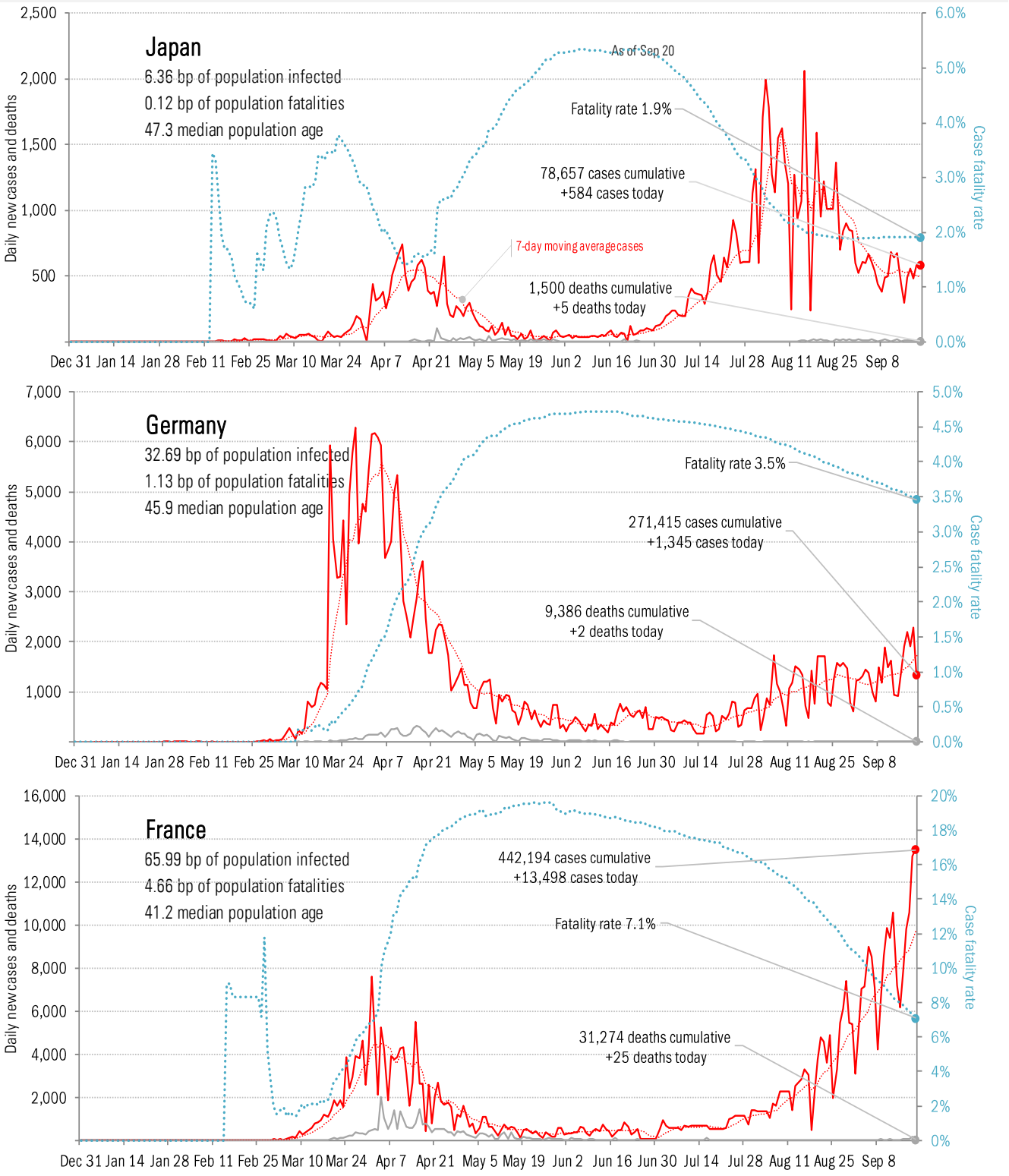

Source: ECDC, TrendMacro calculations

## Patient zero… and then everyone else



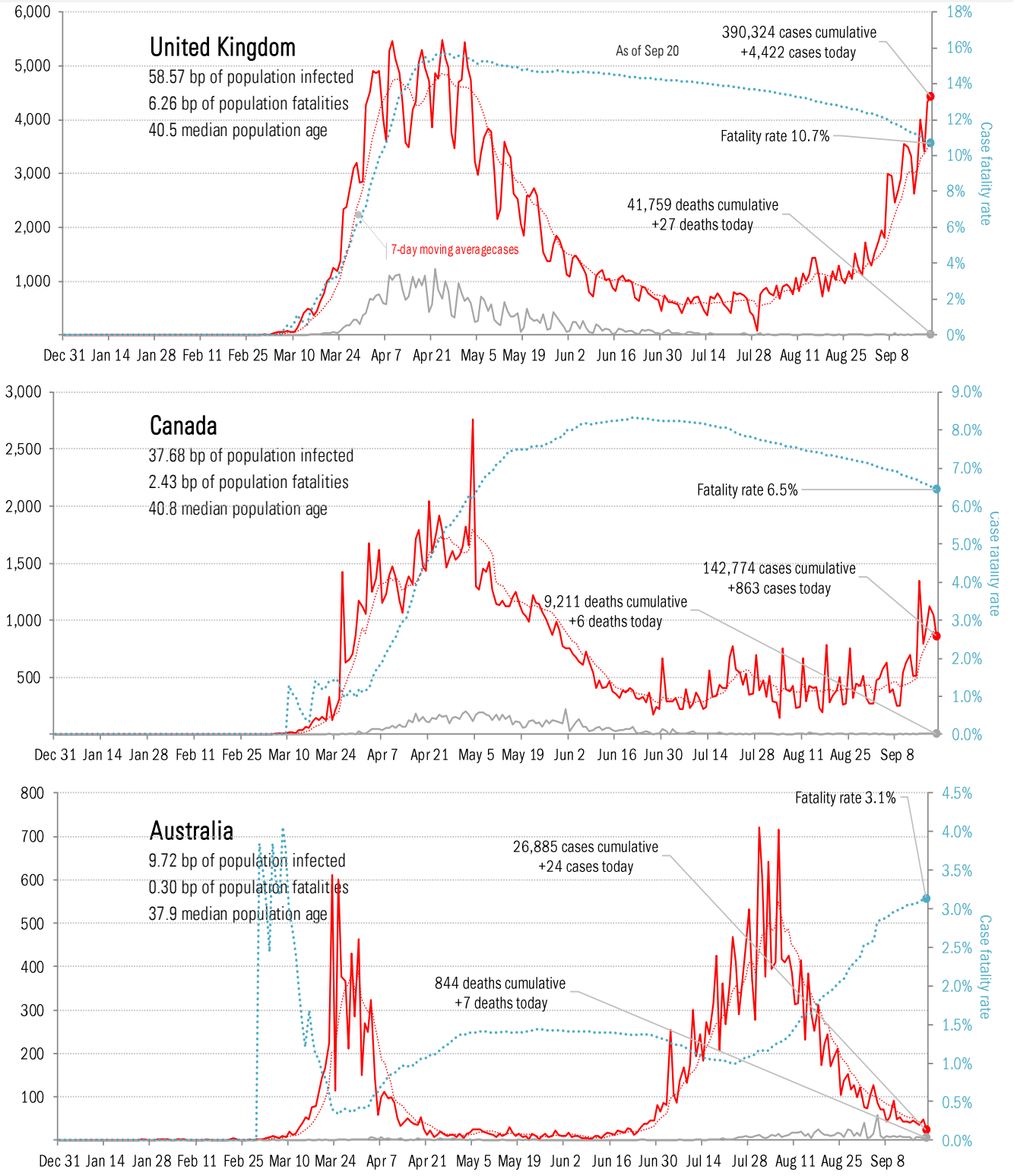

Source: ECDC, TrendMacro calculations

## Impact in the largest economies



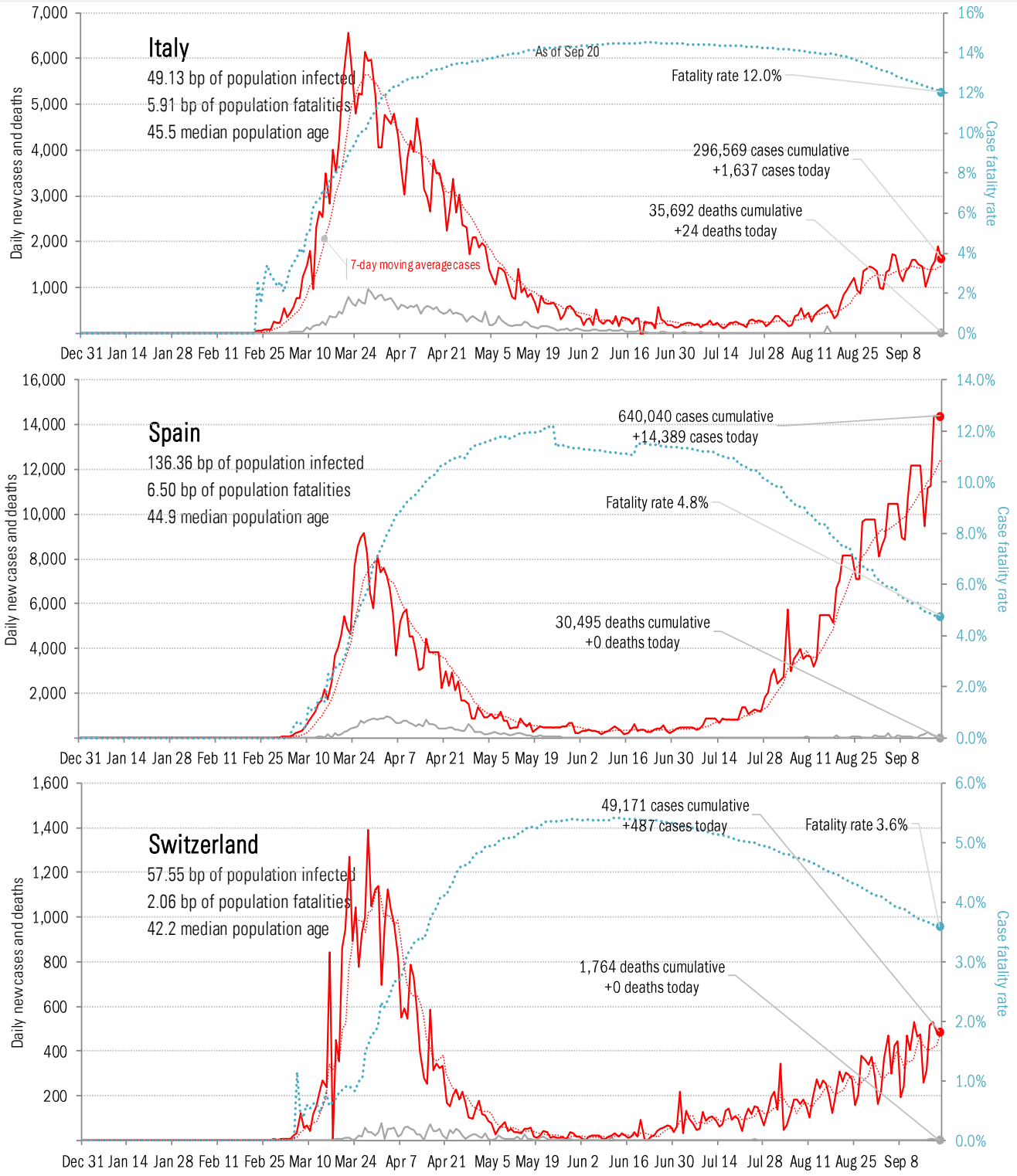

Source: ECDC, TrendMacro calculations

## Impact in The Anglosphere



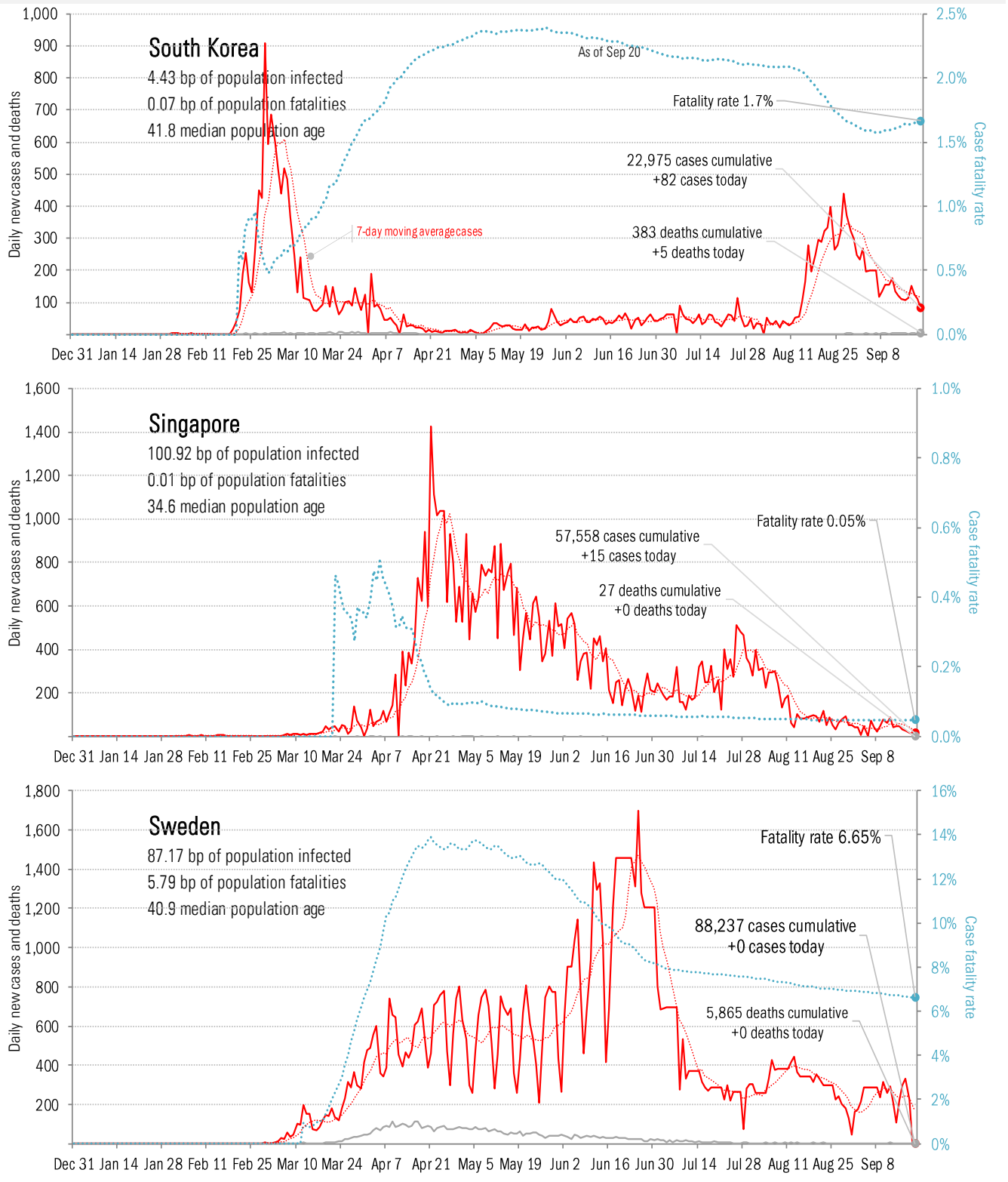

Source: ECDC, TrendMacro calculations

## Impact in continental Europe



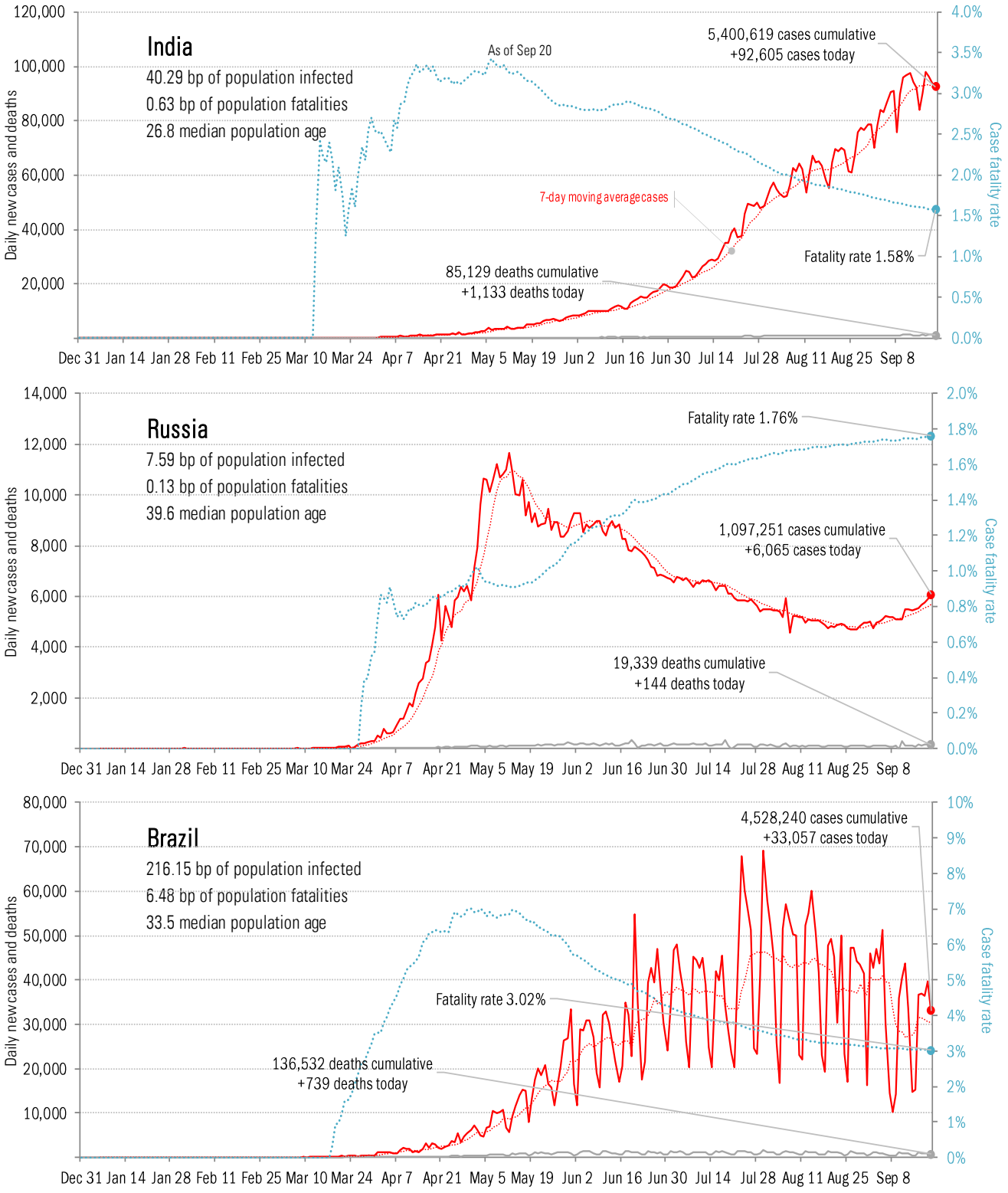

Source: ECDC, TrendMacro calculations

## Impact in other hot-spots



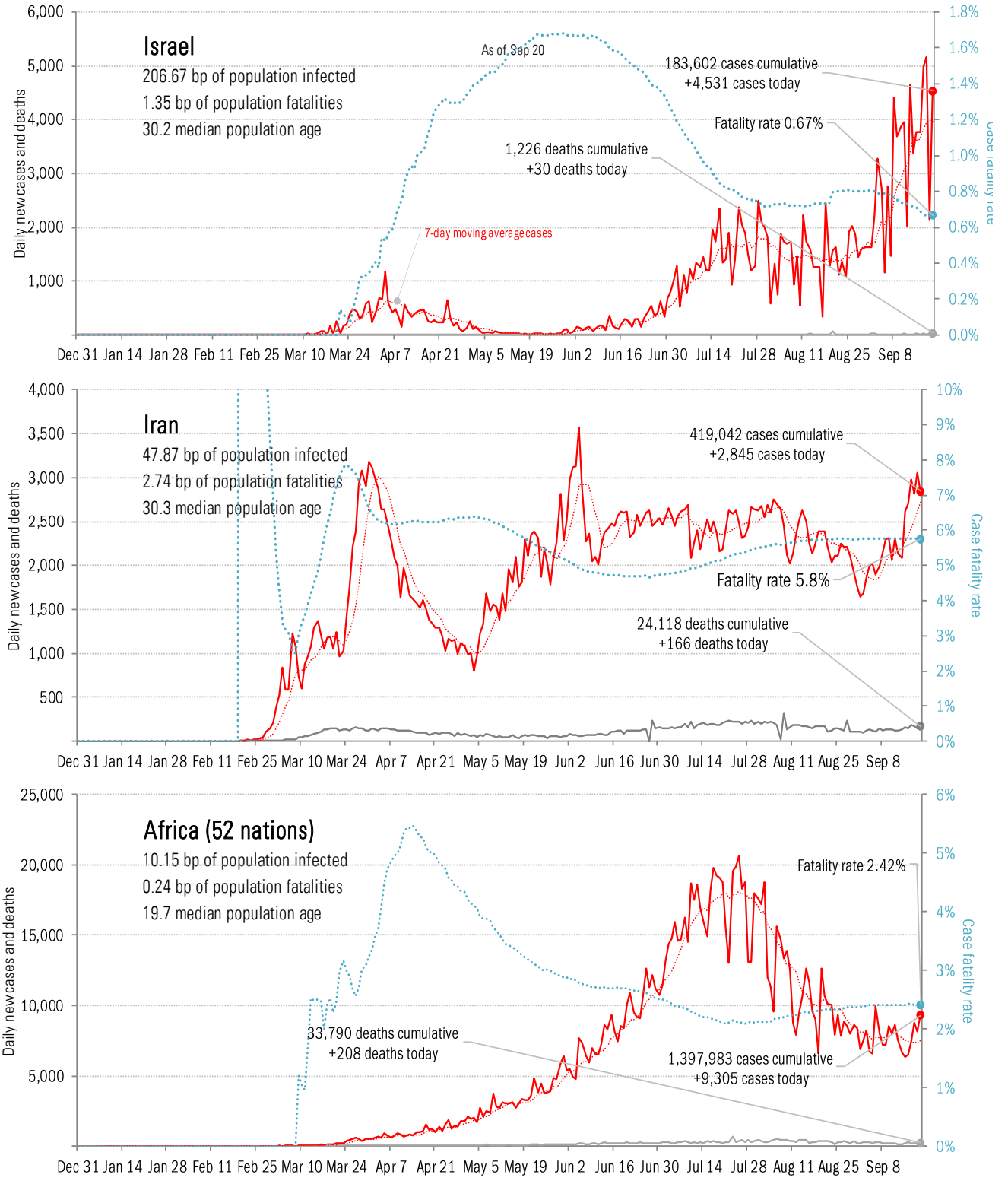

Source: ECDC, TrendMacro calculations

## Impact in the BRICs ex-China




Source: ECDC, TrendMacro calculations

## Impact in the Middle East and Africa




Source: ECDC, TrendMacro calculations